AUG O 6 7002 E

SEQUENCE LISTING

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<120> CXCR Agonist Treatment of Hematopoietic Cells

<130> SMAR-012CIP

<140> 10/086,177

<141> 2002-02-26

<150> 09/835,107

<151> 2000-04-12

<150> 60/232,425

<151> 2000-09-14

<150> CA 2,305,036

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His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro 20 25 30

Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln 35 40 45

Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys 50 55 60

Ala Leu Asn

65

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Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys 55 60

Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln

Glu Tyr Leu Glu Lys Ala Leu Asn Lys Arg Phe Lys Met 85

<210> 3 <211> 93 <212> PRT <213> Homo sapiens

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85

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1 His

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      3-SDF-1 (55-67) acid
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Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
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                                 25
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      3-SDF-1 (55-67) acid: or CTCE0013
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                                    10
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Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
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His Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu
Asn
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Leu Asn
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      3-SDF-1 (55-67) amide
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                                    10
His Gly Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu
            20
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Asn
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      3-SDF-1 (55-67) amide
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Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
                 5
                                    10
His Gly Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala
Leu Asn
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<223> Synthesized in Laboratory: SDF-1 (1-14) - (G)

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4-SDF-1 (55-67) - E24/K28-cyclic acid
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Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
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      4-SDF-1 (55-67) - K20/E24-cyclic acid
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      4-SDF-1 (55-67) - E24/K28-cyclic acid: or CTCE0022
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Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
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Gly Gly Leu Lys Trp Ile Gln Asp Tyr Leu Glu Lys Ala Leu Asn
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     4-SDF-1 (55-67) - K20/D24-cyclic amide
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Gly Gly Leu Lys Trp Ile Gln Asp Tyr Leu Glu Lys Ala Leu Asn
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     4-SDF-1 (55-67) - C9/C11-cyclic acid
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      4-SDF-1 (55-67) - C9/C11-cyclic amide
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Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
                5
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Gly Gly Ser Lys Pro Gly Val Ile Phe Leu Thr Lys Arg Ser Arg Gln
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Val
<210> 29
<211> 58
<212> PRT
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      4-MIP-1 alpha (11-50) -acid or amide
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Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
1
                5
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Gly Gly Cys Cys Phe Ser Tyr Thr Ser Arg Gln Ile Pro Gln Asn Phe
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25

20

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Ile Ala Asp Tyr Phe Glu Thr Ser Ser Gln Cys Ser Lys Pro Gly Val
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Ile Phe Leu Thr Lys Arg Ser Arg Gln Val
    50
                        55
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      4-MIP-1 alpha (56-70) -acid or amide
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Gly Glu Glu Trp Val Gln Lys Tyr Val Asp Asp Leu Glu Leu Ser
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Ala
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      bridge dimer: CTCE9904
Lys Pro Val Ser Leu Ser Tyr Arg Lys
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      bridge dimer: CTCE9904
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Lys Pro Val Ser Leu Ser Tyr Arg
1
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Leu Thr Lys Arg Ser Arg Gln Val
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      4-MIP-1 alpha (36-50) - acid
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Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
                                    10
Gly Gly Ser Lys Pro Gly Val Ile Phe Leu Thr Lys Arg Ser Arg Gln
            20
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Val